Author Index

Adams, M.W.W., see Robb, F.T. (1120) 267
Adrian, F.-J., see Jaeger, K.-E. (1120) 315
Agarwal, M.K., see Mirshahi, M. (1120) 17
Andersen, M.B., see Kjalke, M. (1120) 248

Bandekar, J.
Amide modes and protein conformation (1120) 123
Banerjee, R.K., see De, P.K. (1120) 167
Barcia, M., see Franco, F.J. (1120) 43
Baudras, A., see Blazy, B. (1120) 223
Beltramini, M., Bubacco, L., Salvato, B., Casella, L., Gullotti, M. and Garofani, S.
The aromatic circular dichroism spectrum as a probe for conformational changes in the active site environment of hemocyanins (1120) 24
Bhargava, M.M., see Hofmann, R. (1120) 343
Bhatnagar, A., see Liu, S.-Q. (1120) 329
Blazy, B., Baudras, A. and Maurizot, J.C.
Near ultraviolet circular dichroism study of the cyclic AMP receptor protein, its NH_2-terminal domain and their interaction with cyclic AMP (1120) 223
Boel, S., see Dillen, L. (1120) 105
Brand, H.S., see Visser, N.A. (1120) 308
Brenner, M.C., Ma, L., Johnson, M.K. and Scott, R.A.
Spectroscopic characterization of the alternate form of *S*-methylcoenzyme M reductase from *Methanobacterium thermoautotrophicum* (strain ΔH) (1120) 160
Bubacco, L., see Beltramini, M. (1120) 24
Burns, R.D., see Napoli, J.L. (1120) 183
Bzowska, A., Kulikowska, E. and Shugar, D.
Formycins A and B and some analogues: selective inhibitors of bacterial (*Escherichia coli*) purine nucleoside phosphorylase (1120) 239

Casella, L., see Beltramini, M. (1120) 24
Chandra, S., see Polya, G.M. (1120) 273
Christensen, B., see Kjalke, M. (1120) 248
Chûjô, R., see Yamamoto, Y. (1120) 173
Chung, R., see Polya, G.M. (1120) 273
Claeys, M., see Dillen, L. (1120) 105

De, P.K. and Banerjee, R.K.
Purification and characterization of a soluble peroxidase of rat preputial gland: comparison with lactoperoxidase (1120) 167
De Kok, A., see Schulze, E. (1120) 87
De Potter, W.P., see Dillen, L. (1120) 105
Deyashiki, Y., see Nakayama, T. (1120) 144
Diaz, C., see Franco, F.J. (1120) 43
Dillen, L., Boel, S., De Potter, W.P. and Claeys, M.
Mass spectrometric characterization of bovine chromaffin granule peptides related to chromogranin B. (1120) 105
Doderer, A., Kokkelink, I., Van der Veen, S., Valk, B.E., Schram, A.W. and Douma, A.C.
Purification and characterization of two lipoxygenase isoenzymes from germinating barley (1120) 97
Douma, A.C., see Doderer, A. (1120) 97
Dunn, B.M., see Oda, K. (1120) 208
Dunn, J.J., see France, L.L. (1120) 59

Endo, A., see Kato, M. (1120) 113

Falbo, A., see Pollegioni, L. (1120) 11
France, L.L., Kieleczawa, J., Dunn, J.J., Hind, G. and Sutherland, J.C.
Structural analysis of an outer surface protein from the Lyme disease spirochete, *Borrelia burgdorferi*, using circular dichroism and fluorescence spectroscopy (1120) 59
Franco, F.J., Diaz, C., Barcia, M. and Freire, M.
Thymosin α_1 is a native peptide in several tissues (1120) 43
Freire, M., see Franco, F.J. (1120) 43
Fuwa, T., see Koide, H. (1120) 257

Garofani, S., see Beltramini, M. (1120) 24
Gatta, F., see Marta, M. (1120) 262
Godovac-Zimmermann, J., Sheil, M., Wrench, P.M. and Hiller, R.G.
Amino acid sequence of the β-subunit of phycoerythrin from the cryptophyte algae Chroomonas CS 24 (1120) 117
Goldberg, I., see Hofmann, R. (1120) 343
Graceffa, P.
Heat-treated smooth muscle tropomyosin (1120) 205
Gullotti, M., see Beltramini, M. (1120) 24

Hamato, N., see Matsuo, M. (1120) 187
Hancock, R.E.W., see Jaeger, K.-E. (1120) 315
Hara, A., see Nakayama, T. (1120) 144
Hara, S., see Matsuo, M. (1120) 187
Hayashi, M., see Nakashima, N. (1120) 1
Hiller, R.G., see Godovac-Zimmermann, J. (1120) 117
Hind, G., see France, L.L. (1120) 59
Hineno, T., see Sano, A. (1120) 75
Hoenders, H.J., see Van Boekel, M.A.M. (1120) 201
Hofmann, R., Joseph, A., Bhargava, M.M., Rosen, E.M. and Goldberg, I.
Scatter factor is a glycoprotein but glycosylation is not required for its activity (1120) 343
Höj, P.B., see Polya, G.M. (1120) 273
Hoshi, K., see Koide, H. (1120) 257

Inagaki, F., see Koide, H. (1120) 257
Inoue, Y., see Yamamoto, Y. (1120) 173
Ishikawa, M., see Nakashima, N. (1120) 1
Iwafune, K., see Yamamoto, Y. (1120) 173

Jaeger, K.-E., Adrian, F.-J., Meyer, H.E., Hancock, R.E.W. and Winkler, U.K.
Extracellular lipase from *Pseudomonas aeruginosa* is an amphiphilic protein (1120) 315
Johnson, M.K., see Brenner, M.C. (1120) 160
Joseph, A., see Hofmann, R. (1120) 343

Author Index

Adams, M.W.W., see Robb, F.T. (1120) 267
Adrian, F.-J., see Jaeger, K.-E. (1120) 315
Agarwal, M.K., see Mirshahi, M. (1120) 17
Andersen, M.B., see Kjalke, M. (1120) 248

Bandekar, J.
Amide modes and protein conformation (1120) 123
Banerjee, R.K., see De, P.K. (1120) 167
Barcia, M., see Franco, F.J. (1120) 43
Baudras, A., see Blazy, B. (1120) 223
Beltramini, M., Bubacco, L., Salvato, B., Casella, L., Gullotti, M. and Garofani, S.
The aromatic circular dichroism spectrum as a probe for conformational changes in the active site environment of hemocyanins (1120) 24
Bhargava, M.M., see Hofmann, R. (1120) 343
Bhatnagar, A., see Liu, S.-Q. (1120) 329
Blazy, B., Baudras, A. and Maurizot, J.C.
Near ultraviolet circular dichroism study of the cyclic AMP receptor protein, its NH_2-terminal domain and their interaction with cyclic AMP (1120) 223
Boel, S., see Dillen, L. (1120) 105
Brand, H.S., see Visser, N.A. (1120) 308
Brenner, M.C., Ma, L., Johnson, M.K. and Scott, R.A.
Spectroscopic characterization of the alternate form of *S*-methylcoenzyme M reductase from *Methanobacterium thermoautotrophicum* (strain ΔH) (1120) 160
Bubacco, L., see Beltramini, M. (1120) 24
Burns, R.D., see Napoli, J.L. (1120) 183
Bzowska, A., Kulikowska, E. and Shugar, D.
Formycins A and B and some analogues: selective inhibitors of bacterial (*Escherichia coli*) purine nucleoside phosphorylase (1120) 239

Casella, L., see Beltramini, M. (1120) 24
Chandra, S., see Polya, G.M. (1120) 273
Christensen, B., see Kjalke, M. (1120) 248
Chûjô, R., see Yamamoto, Y. (1120) 173
Chung, R., see Polya, G.M. (1120) 273
Claeys, M., see Dillen, L. (1120) 105

De, P.K. and Banerjee, R.K.
Purification and characterization of a soluble peroxidase of rat preputial gland: comparison with lactoperoxidase (1120) 167
De Kok, A., see Schulze, E. (1120) 87
De Potter, W.P., see Dillen, L. (1120) 105
Deyashiki, Y., see Nakayama, T. (1120) 144
Diaz, C., see Franco, F.J. (1120) 43
Dillen, L., Boel, S., De Potter, W.P. and Claeys, M.
Mass spectrometric characterization of bovine chromaffin granule peptides related to chromogranin B. (1120) 105
Doderer, A., Kokkelink, I., Van der Veen, S., Valk, B.E., Schram, A.W. and Douma, A.C.
Purification and characterization of two lipoxygenase isoenzymes from germinating barley (1120) 97
Douma, A.C., see Doderer, A. (1120) 97
Dunn, B.M., see Oda, K. (1120) 208
Dunn, J.J., see France, L.L. (1120) 59

Endo, A., see Kato, M. (1120) 113

Falbo, A., see Pollegioni, L. (1120) 11
France, L.L., Kieleczawa, J., Dunn, J.J., Hind, G. and Sutherland, J.C.
Structural analysis of an outer surface protein from the Lyme disease spirochete, *Borrelia burgdorferi*, using circular dichroism and fluorescence spectroscopy (1120) 59
Franco, F.J., Diaz, C., Barcia, M. and Freire, M.
Thymosin α_1 is a native peptide in several tissues (1120) 43
Freire, M., see Franco, F.J. (1120) 43
Fuwa, T., see Koide, H. (1120) 257

Garofani, S., see Beltramini, M. (1120) 24
Gatta, F., see Marta, M. (1120) 262
Godovac-Zimmermann, J., Sheil, M., Wrench, P.M. and Hiller, R.G.
Amino acid sequence of the β-subunit of phycoerythrin from the cryptophyte algae Chroomonas CS 24 (1120) 117
Goldberg, I., see Hofmann, R. (1120) 343
Graceffa, P.
Heat-treated smooth muscle tropomyosin (1120) 205
Gullotti, M., see Beltramini, M. (1120) 24

Hamato, N., see Matsuo, M. (1120) 187
Hancock, R.E.W., see Jaeger, K.-E. (1120) 315
Hara, A., see Nakayama, T. (1120) 144
Hara, S., see Matsuo, M. (1120) 187
Hayashi, M., see Nakashima, N. (1120) 1
Hiller, R.G., see Godovac-Zimmermann, J. (1120) 117
Hind, G., see France, L.L. (1120) 59
Hineno, T., see Sano, A. (1120) 75
Hoenders, H.J., see Van Boekel, M.A.M. (1120) 201
Hofmann, R., Joseph, A., Bhargava, M.M., Rosen, E.M. and Goldberg, I.
Scatter factor is a glycoprotein but glycosylation is not required for its activity (1120) 343
Höj, P.B., see Polya, G.M. (1120) 273
Hoshi, K., see Koide, H. (1120) 257

Inagaki, F., see Koide, H. (1120) 257
Inoue, Y., see Yamamoto, Y. (1120) 173
Ishikawa, M., see Nakashima, N. (1120) 1
Iwafune, K., see Yamamoto, Y. (1120) 173

Jaeger, K.-E., Adrian, F.-J., Meyer, H.E., Hancock, R.E.W. and Winkler, U.K.
Extracellular lipase from *Pseudomonas aeruginosa* is an amphiphilic protein (1120) 315
Johnson, M.K., see Brenner, M.C. (1120) 160
Joseph, A., see Hofmann, R. (1120) 343

Kaiser, R., see Segura-Aguilar, J. (1120) 33
Kajiyama, N., Masuda, T., Tatsumi, H. and Nakano, E.
Purification and characterization of luciferases from fireflies, *Luciola cruciata* and *Luciola lateralis* (1120) 228
Kakimoto, Y., see Sano, A. (1120) 75
Kamei-Hayashi, K., see Matsuo, M. (1120) 187
Kasai, H., see Koide, H. (1120) 257
Kasinath, B.S., see Singh, A.K. (1120) 337
Kato, M., Sakai, K. and Endo, A.
Koningic acid (heptelidic acid)inhibition of glyceraldehyde-3-phosphate dehydrogenases from various sources (1120) 113
Kawauchi, H., see Yasuda, A. (1120) 297
Kekwick, R.G.O., see Sheldon, P.S. (1120) 151
Khan, N.N., see Nolan, L.L. (1120) 322
Kieleczawa, J., see France, L.L. (1120) 59
Kjalke, M., Andersen, M.B., Schneider, P., Christensen, B., Schülein, M. and Welinder, K.G.
Comparison of structure and activities of peroxidases from *Coprinus cinereus*, *Coprinus macrorhizus* and *Arthromyces ramosus* (1120) 248
Kohda, D., see Koide, H. (1120) 257
Kohri, K., see Koide, H. (1120) 257
Koide, H., Muto, Y., Kasai, H., Kohri, K., Hoshi, K., Takahashi, S., Tsukumo, K.-i., Sasaki, T., Oka, T., Miyake, T., Fuwa, T., Kohda, D., Inagaki, F., Miyazawa, T. and Yokoyama, S.
A site-directed mutagenesis study on the role of isoleucine-23 of human epidermal growth factor in the receptor binding (1120) 257
Kokkelink, I., see Doderer, A. (1120) 97
Kondoh, K., see Sano, A. (1120) 75
Koretz, J.F., see Radlick, L.W. (1120) 193
Kulikowska, E., see Bzowska, A. (1120) 239

Lee, C.-H., see Wakagi, T. (1120) 289
Lewis, E.J., see Singh, A.K. (1120) 337
Lin, Y.-Z., see Wei, J. (1120) 69
Lind, C., see Segura-Aguilar, J. (1120) 33
Lindskog, S., see Ren, X. (1120) 81
Liu, S.-Q., Bhatnagar, A. and Srivastava, S.K.
Carboxymethylation-induced activation of bovine lens aldose reductase (1120) 329
Longbottom, D., Sallenave, J.-M. and Van Heyningen, V.
Subunit structure of calgranulins A and B obtained from sputum, plasma, granulocytes and cultured epithelial cells (1120) 215

Ma, L., see Brenner, M.C. (1120) 160
Marta, M., Gatta, F. and Pomponi, M.
Physostigmine analogs anticholinesterases: effects of the lengthening of the *N*-carbamic chain on the inhibition kinetics (1120) 262
Masuda, T., see Kajiyama, N. (1120) 228
Matsumoto, I., see Nakashima, N. (1120) 1
Matsumoto, T., see Takase, K. (1120) 281
Matsuo, M., Hamato, N., Takano, R., Kamei-Hayashi, K., Yasuda-Kamatani, Y., Nomoto, K. and Hara, S.
Trypsin inhibitors from bottle gourd (*Lagenaria leucantha* Rusby *var. Depressa* Makino) seeds. Purification and amino acid sequences (1120) 187
Maurizot, J.C., see Blazy, B. (1120) 223
Meyer, H.E., see Jaeger, K.-E. (1120) 315
Mirshahi, A., see Mirshahi, M. (1120) 17
Mirshahi, M., Pagano, M., Mirshahi, A. and Agarwal, M.K.
Generation of polyclonal antibodies against the mineralocorticoid receptor and analysis of mineralocortin in rat myocardium by immunophotochemistry (1120) 17
Miyake, T., see Koide, H. (1120) 257
Miyazaki, K., see Nakashima, N. (1120) 1
Miyazawa, T., see Koide, H. (1120) 257
Mizuno, H., see Takase, K. (1120) 281
Mizuno, T., see Sano, A. (1120) 75
Montero-Lomelí, M.
Effect of dimethyl sulfoxide on phosphoryl transfer catalyzed by yeast hexokinase (1120) 305
Morita, N., see Sano, A. (1120) 75
Morris, G.E. and Nguyen thi Man,
Changes at the N-terminus of human brain creatine kinase during a transition beween inactive folding intermediate and active enzyme (1120) 233
Muto, Y., see Koide, H. (1120) 257

Nakano, E., see Kajiyama, N. (1120) 228
Nakashima, N., Miyazaki, K., Ishikawa, M., Yatohgo, T., Ogawa, H., Uchibori, H., Matsumoto, I., Seno, N. and Hayashi, M.
Vitronectin diversity in evolution but uniformity in ligand binding and size of the core polypeptide (1120) 1
Nakatani, H., see Oda, K. (1120) 208
Nakayama, T., Tanabe, H., Deyashiki, Y., Shinoda, M., Hara, A. and Sawada, H.
Chemical modification of cysteinyl, lysyl and histidyl residues of mouse liver 17β-hydroxysteroid dehydrogenase (1120) 144
Nanai, N., see Yamamoto, Y. (1120) 173
Napoli, J.L., Posch, K.C. and Burns, R.D.
Microsomal retinal synthesis: retinol vs. holo-CRBP as substrate and evaluation of NADP, NAD and NADPH as cofactors (1120) 183
Nelsestuen, G.L., see Xu, C. (1120) 49
Neumann, G.M., see Polya, G.M. (1120) 273
Nguyen thi Man, , see Morris, G.E. (1120) 233
Nicoll, C.S., see Yasuda, A. (1120) 297
Nolan, L.L., Rivera, J.H. and Khan, N.N.
Isolation and partial characterization of a high-molecular-weight DNA polymerase from *Leishmania mexicana* (1120) 322
Nomoto, K., see Matsuo, M. (1120) 187
Noso, T., see Yasuda, A. (1120) 297

Oda, K., Nakatani, H. and Dunn, B.M.
Substrate specificity and kinetic properties of pepstatin-insensitive carboxyl proteinase from *Pseudomonas* sp. No. 101 (1120) 208
Ogawa, H., see Nakashima, N. (1120) 1
Oka, T., see Koide, H. (1120) 257
Oshima, T., see Wakagi, T. (1120) 289

Pagano, M., see Mirshahi, M. (1120) 17
Papkoff, H., see Yasuda, A. (1120) 297
Park, J.-B., see Robb, F.T. (1120) 267
Pilone, M.S., see Pollegioni, L. (1120) 11
Polenov, A.L., see Yasuda, A. (1120) 297
Pollegioni, L., Falbo, A. and Pilone, M.S.
Specificity and kinetics of *Rhodotorula gracilis* D-amino acid oxidase (1120) 11
Polya, G.M., Chandra, S., Chung, R., Neumann, G.M. and Höj, P.B.
Purification and characterization of wheat and pine small basic protein substrates for plant calcium-dependent protein kinase (1120) 273
Pomponi, M., see Marta, M. (1120) 262
Posch, K.C., see Napoli, J.L. (1120) 183

Radlick, L.W. and Koretz, J.F.
Biophysical characterization of α-crystallin aggregates: validation of the micelle hypothesis (1120) 193
Ren, X. and Lindskog, S.
Buffer dependence of CO_2 hydration catalyzed by human carbonic anhydrase I (1120) 81

Rivera, J.H., see Nolan, L.L. (1120) 322
Robb, F.T., Park, J.-B. and Adams, M.W.W.
Characterization of an extremely thermostable glutamate dehydrogenase: a key enzyme in the primary metabolism of the hyperthermophilic archaebacterium, *Pyrococcus furiosus* (1120) 267
Rosen, E.M., see Hofmann, R. (1120) 343

Sakai, K., see Kato, M. (1120) 113
Sallenave, J.-M., see Longbottom, D. (1120) 215
Salvato, B., see Beltramini, M. (1120) 24
Sano, A., Mizuno, T., Kondoh, K., Hineno, T., Ueno, S.-i., Kakimoto, Y. and Morita, N.
Saposin-C from bovine spleen; complete amino acid sequence and relation between the structure and its biological activity (1120) 75
Sasaki, T., see Koide, H. (1120) 257
Sawada, H., see Nakayama, T. (1120) 144
Schneider, P., see Kjalke, M. (1120) 248
Schram, A.W., see Doderer, A. (1120) 97
Schülein, M., see Kjalke, M. (1120) 248
Schulze, E., Westphal, A.H., Veenhuis, M. and De Kok, A.
Purification and cellular localization of wild type and mutated dihydrolipoyltransacetylases from *Azotobacter vinelandii* and *Escherichia coli* expressed in *E. coli* (1120) 87
Scott, R.A., see Brenner, M.C. (1120) 160
Segura-Aguilar, J., Kaiser, R. and Lind, C.
Separation and characterization of isoforms of DT-diaphorase from rat liver cytosol (1120) 33
Seno, N., see Nakashima, N. (1120) 1
Sheil, M., see Godovac-Zimmermann, J. (1120) 117
Sheldon, P.S., Kekwick, R.G.O., Smith, C.G., Sidebottom, C. and Slabas, A.R.
3-Oxoacyl-[ACP] reductase from oilseed rape (*Brassica napus*) (1120) 151
Shinoda, M., see Nakayama, T. (1120) 144
Shugar, D., see Bzowska, A. (1120) 239
Sidebottom, C., see Sheldon, P.S. (1120) 151
Singh, A.K., Kasinath, B.S. and Lewis, E.J.
Interaction of polycations with cell-surface negative charges of epithelial cells (1120) 337
Slabas, A.R., see Sheldon, P.S. (1120) 151
Smith, C.G., see Sheldon, P.S. (1120) 151
Srivastava, S.K., see Liu, S.-Q. (1120) 329
Sutherland, J.C., see France, L.L. (1120) 59
Suzuki, T., see Yamamoto, Y. (1120) 173

Takahashi, S., see Koide, H. (1120) 257
Takano, R., see Matsuo, M. (1120) 187
Takase, K., Matsumoto, T., Mizuno, H. and Yamane, K.
Site-directed mutagenesis of active site residues in *Bacillus subtilis* α-amylase (1120) 281
Tanabe, H., see Nakayama, T. (1120) 144
Tatsumi, H., see Kajiyama, N. (1120) 228
Tsou, C.-L., see Wei, J. (1120) 69
Tsukumo, K.-i., see Koide, H. (1120) 257

Uchibori, H., see Nakashima, N. (1120) 1
Ueno, S.-i., see Sano, A. (1120) 75

Valk, B.E., see Doderer, A. (1120) 97
Van Boekel, M.A.M., Van den Bergh, P.J.P.C. and Hoenders, H.J.
Glycation of human serum albumin: inhibition by Diclofenac (1120) 201
Van den Bergh, P.J.P.C., see Van Boekel, M.A.M. (1120) 201
Vanderkorst, J.K., see Visser, N.A. (1120) 308
Van der Veen, S., see Doderer, A. (1120) 97
Vandestadt, R.J., see Visser, N.A. (1120) 308
Van Heyningen, V., see Longbottom, D. (1120) 215
Vankampen, G.P.J., see Visser, N.A. (1120) 308
Veenhuis, M., see Schulze, E. (1120) 87
Visser, N.A., Brand, H.S., Vankampen, G.P.J., Vandestadt, R.J. and Vanderkorst, J.K.
A high-molecular-weight ($> 8 \cdot 10^5$) non-collagenous glycoprotein is synthesized by bovine cartilage in vitro (1120) 308

Wakagi, T., Lee, C.-H. and Oshima, T.
An extremely stable inorganic pyrophosphatase purified from the cytosol of a thermoacidophilic archaebacterium, *Sulfolobus acidocaldarius* strain 7 (1120) 289
Wei, J., Xie, L., Lin, Y.-Z. and Tsou, C.-L.
The pairing of the separated A and B chains of insulin and its derivatives, FTIR studies (1120) 69
Welinder, K.G., see Kjalke, M. (1120) 248
Westphal, A.H., see Schulze, E. (1120) 87
Winkler, U.K., see Jaeger, K.-E. (1120) 315
Wrench, P.M., see Godovac-Zimmermann, J. (1120) 117

Xie, L., see Wei, J. (1120) 69
Xu, C. and Nelsestuen, G.L.
Association of α-phosphatidylinositol-specific phospholipase C with phospholipid vesicles (1120) 49

Yamaguchi, K., see Yasuda, A. (1120) 297
Yamamoto, Y., Iwafune, K., Nanai, N., Chûjô, R., Inoue, Y. and Suzuki, T.
Orientation and mobility of the heme vinyl groups in myoglobins with the aid of NOE and MATDUHM NMR (1120) 173
Yamane, K., see Takase, K. (1120) 281
Yasuda, A., Yamaguchi, K., Noso, T., Papkoff, H., Polenov, A.L., Nicoll, C.S. and Kawauchi, H.
The complete amino acid sequence of growth hormone from sturgeon (*Acipencer guldenstadti*) (1120) 297
Yasuda-Kamatani, Y., see Matsuo, M. (1120) 187
Yatohgo, T., see Nakashima, N. (1120) 1
Yokoyama, S., see Koide, H. (1120) 257